



SEQUENCE LISTING

<110> Nishimoto, Ikuo

<120> HUMANIN, A POLYPEPTIDE SUPPRESSING NEURONAL DEATH

<130> KUV-102DP1PCT1-US

<140> US 10/088,724

<141> 2002-06-14

<150> PCT/JP00/06314

<151> 2000-09-14

<150> JP 11/264679

<151> 1999-09-17

<150> JP 2000/201456

<151> 2000-06-29

<160> 99

<170> PatentIn version 3.1

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tgcccgtgaa gaggcgggca ggtac 85

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Asp Leu Pro Val Lys Arg Arg Ala

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Asp Lys

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Asp Leu Pro Val Lys Arg Arg Ala
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Leu Pro Val Lys Arg Arg Ala
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Pro Val Lys Arg Arg Ala
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Val Lys Arg Arg Ala
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 Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val
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Lys Arg Arg Ala
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Phe	Ser	Cys	Leu	Leu	Leu	Leu	Thr	Ser	Glu	Ile	Asp	Leu	Pro	Val	Lys
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Ser	Cys	Leu	Leu	Leu	Leu	Thr	Ser	Glu	Ile	Asp	Leu	Pro	Val	Lys	Arg
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Arg Ala

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Cys	Leu	Leu	Leu	Leu	Thr	Ser	Glu	Ile	Asp	Leu	Pro	Val	Lys	Arg	Arg
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Ala

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Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val Lys Arg Arg Ala
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Pro

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Pro Val

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Asp Leu Pro Val
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 <212> PRT
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 Ala Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Gly Glu Ile Asp Leu
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Pro

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 Pro Ala Gly Phe Ser Cys Leu Leu Leu Leu Thr Gly Glu Ile Asp Leu
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Pro

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Pro

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 1 5 10 15

Pro

<210> 29
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 Pro Arg Gly Phe Ala Cys Leu Leu Leu Leu Thr Gly Glu Ile Asp Leu
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Pro

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Pro	Arg	Gly	Phe	Ser	Ala	Leu	Leu	Leu	Leu	Thr	Gly	Glu	Ile	Asp	Leu
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Pro

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Pro	Arg	Gly	Phe	Ser	Cys	Leu	Ala	Leu	Leu	Thr	Gly	Glu	Ile	Asp	Leu
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Pro

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Pro

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 Pro Arg Gly Phe Ser Cys Leu Leu Leu Ala Thr Gly Glu Ile Asp Leu
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Pro

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Pro

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Pro

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Pro

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1 5 10 15

Pro

<210> 39
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Pro

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Pro

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Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Gly Glu Ile Asp Leu
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Ala

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Met Ala Pro Arg Gly Phe Ser Asp Leu Leu Leu Leu Thr Gly Glu Ile
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Asp Leu Pro Val Lys Arg Arg Ala
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Met Ala Pro Arg Gly Phe Ser Glu Leu Leu Leu Leu Thr Gly Glu Ile
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Asp Leu Pro Val Lys Arg Arg Ala
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Met	Ala	Pro	Arg	Gly	Phe	Ser	Phe	Leu	Leu	Leu	Leu	Thr	Gly	Glu	Ile
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Asp	Leu	Pro	Val	Lys	Arg	Arg	Ala
			20				

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Asp	Leu	Pro	Val	Lys	Arg	Arg	Ala
			20				

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Asp Leu Pro Val Lys Arg Arg Ala
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Asp Leu Pro Val Lys Arg Arg Ala
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Asp Leu Pro Val Lys Arg Arg Ala
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Asp Leu Pro Val Lys Arg Arg Ala
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Asp Leu Pro Val Lys Arg Arg Ala
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Asp Leu Pro Val Lys Arg Arg Ala
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Met	Ala	Pro	Arg	Gly	Phe	Ser	Pro	Leu	Leu	Leu	Leu	Thr	Gly	Glu	Ile
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Asp	Leu	Pro	Val	Lys	Arg	Arg	Ala
				20			

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Met	Ala	Pro	Arg	Gly	Phe	Ser	Gln	Leu	Leu	Leu	Leu	Thr	Gly	Glu	Ile
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Asp	Leu	Pro	Val	Lys	Arg	Arg	Ala
				20			

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Asp	Leu	Pro	Val	Lys	Arg	Arg	Ala
				20			

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Asp Leu Pro Val Lys Arg Arg Ala
 20

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Asp Leu Pro Val Lys Arg Arg Ala
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Asp Leu Pro Val Lys Arg Arg Ala
20

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1 5 10 15

Asp Leu Pro Val Lys Arg Arg Ala
20

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Asp Leu Pro Val Lys Arg Arg Ala
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1 5 10 15

Asp Leu Pro Val Lys Arg Arg Ala
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<210> 61

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<213> Artificial

<220>

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Asp Tyr Lys Asp Asp Asp Asp Lys
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<213> Homo sapiens

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Lys Arg Arg Ala
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<223> "Xaa" indicate arbitrary amino acids not more than 10 residues.

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<222> (3).. (3)

<223> "Xaa" indicates Cys or a basic amino acid.

<220>

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<222> (4).. (4)

<223> "Xaa" indicates Leu or Arg.

<220>

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<222> (5).. (5)

<223> "Xaa" indicate arbitrary amino acids not more than 10 residues.

<220>

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<222> (8).. (8)

<223> "Xaa" indicate Gly or Ser.

<220>

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<222> (9).. (9)

<223> "Xaa" indicate arbitrary amino acids not more than 10 residues.

<400> 63

Pro	Xaa	Xaa	Xaa	Xaa	Leu	Thr	Xaa	Xaa	Pro
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<210> 64

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<222> (2).. (2)

<223> "Xaa" indicates 1 to 10 residues of arbitrary amino acids.

<220>
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 <222> (3).. (3)
 <223> "Xaa" indicates Cys or a basic amino acid.

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 <222> (4).. (4)
 <223> "Xaa" indicates Leu or Arg.

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 <223> "Xaa" indicates 1 to 10 residues of arbitrary amino acids.

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 <223> "Xaa" indicates Gly or Ser.

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 <223> "Xaa" indicates 1 to 10 residues of arbitrary amino acids.

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 1 5 10

<210> 65
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<220>
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 <222> (4).. (4)
 <223> "Xaa" indicates Leu or Arg.

<220>
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 <223> "Xaa" indicate arbitrary amino acids not more than 10 residues.

<220>
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 <222> (8).. (8)
 <223> "Xaa" indicates Gly or Ser.

<220>
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 <222> (9).. (9)
 <223> "Xaa" indicate arbitrary amino acids not more than 10 residues.

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 1 5 10

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<222> (4).. (4)
<223> "Xaa" indicates Ser or Ala.

<400> 66
Xaa Xaa Xaa Xaa
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Arg Gly Phe Ser
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<210> 68
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<400> 68
Ala Gly Phe Ser
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<400> 69
Arg Ala Phe Ser
1

<210> 70
<211> 4
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Arg Gly Ala Ser
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Arg Gly Phe Ala
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Arg Gly Ala Ala

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Arg Ala Ala Ser

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Arg Ala Ala Ala

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Ala Gly Phe Ala

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Ala Gly Ala Ala

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Ala Ala Ala Ala

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<222> (3).. (3)

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<220>

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<222> (4).. (4)

<223> "Xaa" indicates Leu or Ala.

<400> 83

Xaa Xaa Xaa Xaa

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